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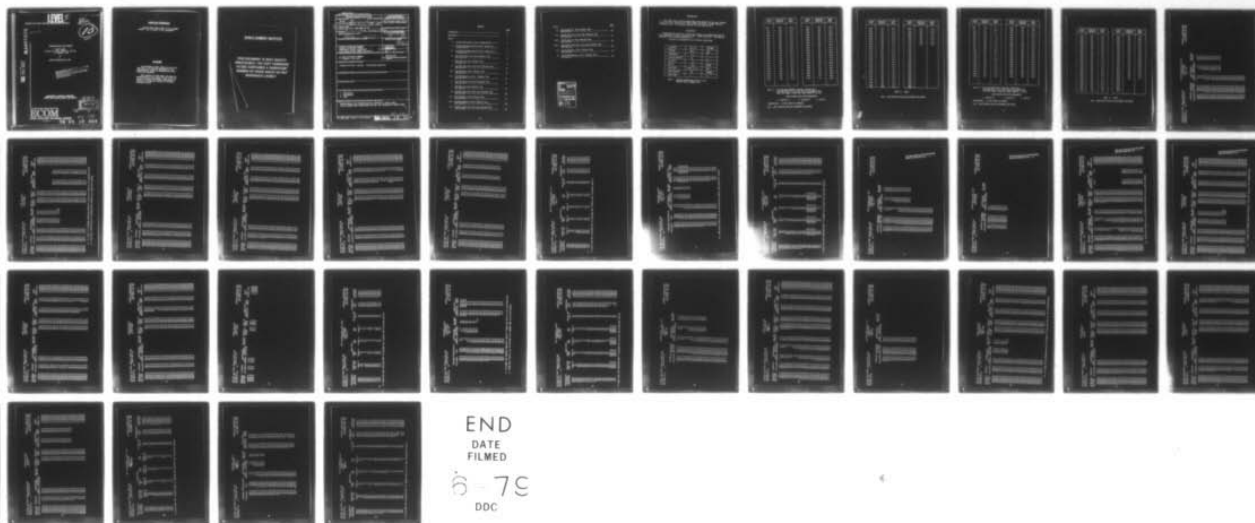
ARMY ELECTRONICS COMMAND WHITE SANDS MISSILE RANGE N--ETC F/G 4/2
12831D LANCE MISSILE NUMBER 2486, ROUND NUMBER 325 DSL (18 JANU--ETC(U)
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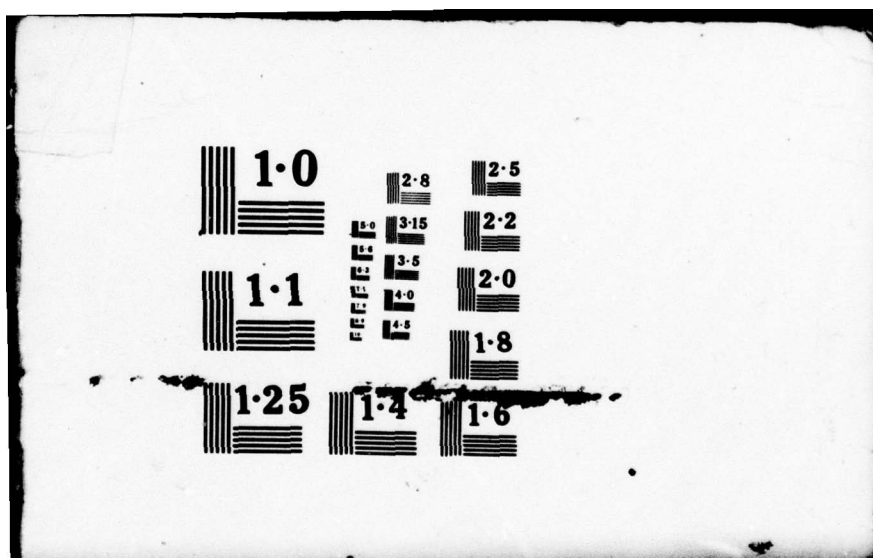
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March 1979

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METEOROLOGICAL DATA REPORT

12831D LANCE
MISSILE NO. 2486, ROUND NO. 325 DSL
(18 JANUARY 1979)

BY

WSMR METEOROLOGICAL TEAM

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ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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INTRODUCTION

(AA) 12831 Lance, Missile Number 2486, Round Number 325 DSL, was launched from LC-33, White Sands Missile Range (WSMR), New Mexico, at 0847 HRS MST, 18 January 1979. The scheduled launched time was 0830 HRS MST.

DISCUSSION

Meteorological data were recorded and reduced by the WSMR Meteorological Team, Atmospheric Sciences Laboratory (ASL), WSMR, New Mexico. The data are presented in the following tabulations.

The data are presented in the following tabulations:

ELEVATION	3977.30	FEET/MSL
PRESSURE	882.0	MBS
TEMPERATURE	10.1	°C
RELATIVE HUMIDITY	58	%
DEW POINT	2.2	°C
DENSITY	1084	GM/M ³
WIND SPEED	19 GUST TO 29	MPH
WIND DIRECTION	285	DEGREES
CLOUD COVER	3	Sc

TABLE I. SURFACE OBSERVATIONS TAKEN AT LC-33, 0848 HRS MST/18 JANUARY 1979.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	270	29.0
100	269	25.0
200	268	24.5
300	267	24.5
400	265	24.0
500	265	25.0
600	265	25.5
700	265	26.0
800	265	26.5
900	266	28.5
1000	266	30.0
1100	267	31.5
1200	267	33.0
1300	268	33.5
1400	269	33.5
1500	270	33.5
1600	271	33.5
1700	268	34.5
1800	264	35.0
1900	260	36.0
2000	256	36.5

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
2100	258	37.0
2200	260	37.5
2300	262	38.0
2400	264	38.0
2500	266	41.0
2600	267	44.0
2700	268	47.0
2800	269	50.0
2900	270	46.5
3000	271	43.0
3100	272	39.5
3200	273	36.0
3300	273	37.0
3400	272	37.5
3500	272	38.0
3600	271	38.5
3700	271	38.5
3800	271	38.5
3900	271	38.5
4000	271	38.0
4100	271	38.5

TABLE II. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 1
RELEASED FROM LC-33, AT 0820 HRS MST/18 JANUARY 1979
(AA) 12831 LANCE, MISSILE NO. 2486, ROUND NO. 325 DSL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24

Y = 182,350.16

Z = 3977.30

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	270	38.5	6600	267	37.0
4300	270	39.0	6700	266	37.0
4400	269	29.0	6800	265	37.0
4500	269	39.0	6900	266	37.5
4600	269	38.5	7000	267	37.5
4700	269	38.0	7100	268	37.5
4800	268	37.5	7200	268	37.5
4900	268	37.5	7300		
5000	267	37.0	7400		
5100	267	37.0	7500		
5200	266	26.5	7600		
5300	266	36.5	7700		
5400	266	36.5	7800		
5500	266	36.5	7900		
5600	266	36.5	8000		
5700	265	36.5	8100		
5800	265	36.5	8200		
5900	265	36.5	8300		
6000	264	36.0	8400		
6100	265	36.5	8500		
6200	266	36.5	8600		
6300	267	37.0	8700		
6400	268	37.0	8800		
6500	268	37.0	8900		

TABLE II. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
SUR	270	25	2100	268	38.5
100	272	20.5	2200	269	39.0
200	274	16	2300	270	39.5
300	276	11.5	2400	270	40.0
400	277	7.0	2500	273	41.0
500	273	10.5	2600	276	41.5
600	268	14.0	2700	279	42.0
700	264	17.5	2800	282	42.5
800	259	20.5	2900	283	43.0
900	257	22.5	3000	283	43.5
1000	255	24.0	3100	284	44.0
1100	253	26.0	3200	284	44.0
1200	251	27.5	3300	285	44.0
1300	253	29.0	3400	285	44.0
1400	255	30.0	3500	285	44.0
1500	257	31.5	3600	285	44.0
1600	259	32.5	3700	284	44.5
1700	261	34.0	3800	283	44.5
1800	263	35.5	3900	282	44.5
1900	265	37.0	4000	280	44.5
2000	267	38.0	4100	277	44.5

TABLE III. PILOT-BALLOON-MEASURED WIND DATA, RELEASE NO. 2
RELEASED FROM LC-33, AT 0848 HRS MST/18 JANUARY 1979
(AA) 12831 LANCE, MISSILE NO. 2486, ROUND NO. 325 DSL

PIBAL RELEASE POINT WSTM COORDINATES:

X = 486,037.24 Y = 182,350.16 Z = 3977.30

APPROXIMATELY: 1/2 MILE SOUTH OF LAUNCHER.

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)	HEIGHT (FEET)	DIRECTION (DEGREES)	SPEED (MPH)
4200	273	44.0	6600	254	39.5
4300	269	43.5	6700	254	39.5
4400	265	43.0	6800	254	39.5
4500	267	43.5	6900	255	39.5
4600	268	43.5	7000	255	39.5
4700	269	44.0	7100	255	39.5
4800	270	44.0	7200	255	39.5
4900	268	43.5	7300	255	39.5
5000	266	42.5	7400	255	39.0
5200	262	40.5	7600	255	38.5
5300	261	41.0	7700	255	39.0
5400	260	41.5	7800	255	39.0
5500	259	42.0	7900	255	39.0
5600	258	42.0	8000	255	39.0
5700	258	42.0	8100	256	40.0
5800	257	42.0	8200	256	40.5
5900	256	42.0	8300	256	41.0
6000	255	41.5	8400	256	41.0
6100	255	41.0	8500		
6200	255	40.5	8600		
6300	255	40.0	8700		
6400	254	39.5	8800		
6500	254	39.5	8900		

TABLE III. (CONT)

NOTE: WIND DIRECTION DATA ARE REFERENCED TRUE NORTH.

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0830 HRS MST
ASCENSION NO. 30

SIGNIFICANT LEVEL DATA
0180020030
WHITE SANDS
TABLE IV.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE GEOMETRIC		TEMPERATURE		REL. HUM. PERCENT
MILLIBARS	ALTITUDE MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
877.8	3989.0	10.0	.9	53.0
850.0	4864.1	7.6	-1.1	54.0
788.8	6871.0	3.2	-5.0	55.0
768.8	7556.1	4.0	-8.0	41.0
700.0	10035.2	-1.5	-11.9	45.0
645.6	12130.9	-7.2	-14.0	58.0
619.0	13202.9	-10.4	-14.8	70.0
616.4	13309.5	-10.0	-17.5	54.0
601.4	13934.4	-9.7	-27.4	22.0
558.8	15791.2	-11.8	-33.1	15.0
500.0	18562.9	-16.9	-38.0	14.0
448.6	21203.3	-24.1	-43.3	15.0
413.0	23171.3	-28.2	-47.3	14.0
400.0	23922.7	-30.5	-48.6	15.0
391.8	24406.5	-31.1	-49.7	14.0
378.4	25215.8	-32.6		
339.6	27686.7	-39.8		
300.0	30440.9	-45.7		
261.5	33426.6	-49.8		
250.0	34397.2	-49.0		
232.4	35961.1	-47.5		
200.0	39206.8	-53.5		
185.2	40837.0	-53.4		
181.0	41324.7	-52.4		
150.0	45209.6	-56.7		
136.6	47240.7	-57.8		
127.6	48664.3	-56.0		
108.0	52114.7	-62.0		
100.0	53678.4	-63.8		
88.0	56278.0	-61.7		

STATION ALTITUDE 3989.00 FEET MSL
 18 JAN. 79 0830 HRS MST
 ASCENSION NO. 30

SIGNIFICANT LEVEL DATA
 0180020030
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE	GEOMETRIC ALTITUDE MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
75.4	59419.2	-64.1	
70.0	60948.1	-56.7	
56.0	65561.3	-60.3	
50.0	67927.0	-58.2	
47.6	68954.5	-56.4	
46.8	69313.5	-52.3	
40.0	72636.6	-56.7	
30.0	78735.4	-51.8	
25.4	82310.8	-51.1	
20.0	87531.8	-44.5	
19.1	88557.8	-42.2	
16.4	91965.5	-43.0	

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0830 HRS MST
ASCENSION NO. 30

UPPER AIR DATA
0180020030
WHITE SANDS
TABLE V.

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	877.8	10.0	53.0	1076.9	656.5	270.0	19.6	1.000271
4000.0	877.4	10.0	53.0	1076.6	656.4	270.0	19.7	1.000271
4500.0	861.5	8.6	53.6	1062.3	654.8	269.1	25.2	1.000265
5000.0	845.7	7.3	54.1	1047.9	653.2	268.5	30.7	1.000260
5500.0	830.1	6.2	54.3	1032.7	651.9	268.1	36.2	1.000255
6000.0	814.8	5.1	54.6	1017.8	650.9	267.4	38.6	1.000250
6500.0	799.8	4.0	54.8	1003.1	649.3	266.0	36.0	1.000245
7000.0	785.0	3.4	52.4	987.1	648.4	264.4	33.5	1.000240
7500.0	770.4	3.9	42.1	967.0	649.0	264.4	32.8	1.000232
8000.0	756.0	3.0	41.7	952.1	647.9	264.4	32.0	1.000228
8500.0	741.8	1.9	42.5	938.1	646.6			1.000224
9000.0	727.9	.8	43.3	924.3	645.3			1.000220
9500.0	714.3	-.3	44.1	910.8	643.9			1.000216
10000.0	700.9	-1.4	44.9	897.4	642.6			1.000213
10500.0	687.6	-2.8	47.9	884.7	641.0			1.000209
11000.0	674.4	-4.1	51.0	872.2	639.4			1.000206
11500.0	661.5	-5.5	54.1	859.9	637.8			1.000203
12000.0	648.9	-6.8	57.2	847.8	636.1			1.000200
12500.0	636.3	-8.3	62.1	836.0	634.4			1.000197
13000.0	623.9	-9.8	67.7	824.4	632.6			1.000194
13500.0	611.8	-9.9	44.2	809.0	632.3			1.000187
14000.0	599.8	-9.8	21.8	793.1	632.4			1.000180
14500.0	586.1	-10.3	19.9	779.3	631.7			1.000177
15000.0	576.6	-10.9	18.0	765.7	631.0			1.000173
15500.0	565.3	-11.5	16.1	752.3	630.3			1.000170
16000.0	554.1	-12.2	14.9	739.5	629.4			1.000167
16500.0	543.1	-13.1	14.7	727.4	628.3			1.000164
17000.0	532.4	-14.0	14.6	715.5	627.2			1.000161
17500.0	521.8	-14.9	14.4	703.8	626.1			1.000158
18000.0	511.4	-15.9	14.2	692.3	624.9			1.000156

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
 18 JAN. 79 0830 HRS MST
 ASCENSION NO. 30

UPPER AIR DATA
 0180020030
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
18500.0	501.3	-16.8	14.0	681.0	623.8			1.000153
19000.0	491.1	-18.1	14.2	670.7	622.2			1.000151
19500.0	481.1	-19.5	14.4	660.6	620.6			1.000148
20000.0	471.3	-20.8	14.5	650.6	618.9			1.000146
20500.0	461.8	-22.2	14.7	640.9	617.2			1.000144
21000.0	452.4	-23.5	14.9	631.3	615.5			1.000141
21500.0	443.0	-24.7	14.8	621.2	614.1			1.000139
22000.0	433.8	-25.8	14.6	610.8	612.8			1.000137
22500.0	424.8	-26.8	14.3	600.7	611.5			1.000134
23000.0	416.0	-27.8	14.1	590.7	610.2			1.000132
23500.0	407.3	-29.2	14.4	581.6	608.5	240.3	94.3	1.000130
24000.0	398.7	-30.6	14.8	572.6	606.8	242.4	83.4	1.000128
24500.0	390.2	-31.3	12.4**	562.0	605.9	243.3	73.5	1.000126
25000.0	381.9	-32.2	3.7**	552.2	604.7	242.0	63.0	1.000123
25500.0	373.7	-33.4		543.1	603.2	239.5	59.8	1.000121
26000.0	365.6	-34.9		534.6	601.3	237.3	60.9	1.000119
26500.0	357.7	-36.3		526.2	599.5	236.1	64.7	1.000117
27000.0	350.0	-37.8		518.0	597.7	235.0	68.4	1.000115
27500.0	342.4	-39.3		510.0	595.8	234.6	69.1	1.000114
28000.0	334.8	-40.5		501.3	594.3	234.1	69.8	1.000112
28500.0	327.4	-41.5		492.4	592.9	234.8	71.9	1.000110
29000.0	320.1	-42.6		483.7	591.5	235.7	74.1	1.000108
29500.0	313.0	-43.7		475.2	590.1	237.0	80.3	1.000106
30000.0	306.0	-44.8		466.8	588.8	238.2	86.3	1.000104
30500.0	299.2	-45.8		458.4	587.4	239.1	88.9	1.000102
31000.0	292.4	-46.5		449.3	586.5	239.6	88.5	1.000100
31500.0	285.7	-47.2		440.4	585.7	239.5	81.3	1.000098
32000.0	279.2	-47.8		431.7	584.8	238.9	73.6	1.000096
32500.0	272.9	-48.5		423.2	583.9	237.8	65.7	1.000094
33000.0	266.7	-49.2		414.9	583.0	237.7	66.3	1.000092
						237.9	69.6	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0830 HRS MST
ASCENSION NO. 30

UPPER AIR DATA
0180020030
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
33500.0	260.6	-49.7			406.4	582.3	238.8	77.9	1.000091
34000.0	254.6	-49.3			396.3	582.8	239.2	83.3	1.000088
34500.0	248.8	-48.9			386.5	583.4	239.2	85.2	1.000086
35000.0	243.2	-48.4			376.9	584.0	237.6	83.0	1.000084
35500.0	237.6	-48.0			367.6	584.6	235.6	80.8	1.000082
36000.0	232.2	-47.5			358.5	585.2	233.4	81.9	1.000080
36500.0	226.9	-48.5			351.7	584.0	231.7	82.4	1.000078
37000.0	221.6	-49.4			345.1	582.7	230.8	81.5	1.000077
37500.0	216.5	-50.3			338.5	581.5	229.9	80.7	1.000075
38000.0	211.6	-51.3			332.1	580.3	229.5	74.6	1.000074
38500.0	206.7	-52.2			325.9	579.1	229.2	68.2	1.000073
39000.0	201.9	-53.1			319.7	577.9	230.3	60.7	1.000071
39500.0	197.3	-53.5			312.8	577.4	232.3	53.1	1.000070
40000.0	192.7	-53.5			305.5	577.4	236.4	50.2	1.000068
40500.0	188.2	-53.4			298.3	577.5	240.3	49.4	1.000066
41000.0	183.8	-53.1			290.9	577.9	242.7	52.3	1.000065
41500.0	179.5	-52.6			283.5	576.6	244.0	55.1	1.000063
42000.0	175.3	-53.1			277.6	577.9	244.4	57.9	1.000062
42500.0	171.2	-53.7			271.7	577.1	244.6	59.8	1.000061
43000.0	167.2	-54.2			266.0	576.4	244.9	59.6	1.000059
43500.0	163.3	-54.8			260.4	575.7	245.2	59.2	1.000058
44000.0	159.5	-55.3			255.0	575.0	245.6	58.2	1.000057
44500.0	155.7	-55.8			249.6	574.3	246.0	57.2	1.000056
45000.0	152.1	-56.4			244.4	573.6	246.4	54.7	1.000054
45500.0	148.5	-56.8			239.1	573.0	246.9	51.6	1.000053
46000.0	145.0	-57.1			233.8	572.6	247.3	48.9	1.000052
46500.0	141.5	-57.4			228.5	572.3	247.2	47.2	1.000051
47000.0	138.2	-57.7			223.4	571.9	245.4	47.9	1.000050
47500.0	134.9	-57.5			217.9	572.1	242.7	49.0	1.000049
48000.0	131.7	-56.8			212.1	573.0	239.2	46.8	1.000047

STATION ALTITUDE 3489.00 FEET MSL
 18 JAN. 79 0830 HRS MST
 ASCENSION NO. 30

UPPER AIR DATA
 0180020030
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
48500.0	128.6	-56.2		206.5	573.8	236.3	46.2	1.000046
49000.0	125.5	-56.6		202.0	573.3	233.9	46.0	1.000045
49500.0	122.5	-57.5		197.9	572.2	232.2	46.1	1.000044
50000.0	119.6	-58.3		194.0	571.0	230.8	45.9	1.000043
50500.0	116.8	-59.2		190.1	569.8	230.0	45.4	1.000042
51000.0	114.0	-60.1		186.3	568.7	229.3	44.8	1.000041
51500.0	111.3	-60.9		182.6	567.5	229.5	43.6	1.000041
52000.0	108.6	-61.8		179.0	566.4	229.8	42.5	1.000040
52500.0	106.0	-62.4		175.2	565.5	231.3	40.2	1.000039
53000.0	103.4	-63.0		171.4	564.7	233.2	37.6	1.000038
53500.0	100.9	-63.6		167.7	564.0	236.7	36.4	1.000037
54000.0	98.4	-63.5		163.6	564.0	240.7	35.6	1.000036
54500.0	96.0	-63.1		159.3	564.6	244.2	36.3	1.000035
55000.0	93.7	-62.7		155.1	565.1	247.4	37.6	1.000035
55500.0	91.4	-62.3		151.1	565.7	248.0	39.1	1.000034
56000.0	89.2	-61.9		147.1	566.2	247.7	40.7	1.000033
56500.0	87.0	-61.9		143.5	566.3	245.6	41.3	1.000032
57000.0	84.9	-62.3		140.3	565.8	240.8	40.6	1.000031
57500.0	82.9	-62.6		137.1	565.2	235.9	40.3	1.000031
58000.0	80.9	-63.0		134.0	564.7	228.8	38.9	1.000030
58500.0	78.9	-63.4		131.0	564.2	220.9	37.9	1.000029
59000.0	77.0	-63.8		128.1	563.7	216.2	36.5	1.000029
59500.0	75.1	-63.7		124.9	563.8	216.3	33.6	1.000028
60000.0	73.3	-61.3		120.5	567.1	218.1	30.3	1.000027
60500.0	71.5	-58.9		116.3	570.3	233.1	25.1	1.000026
61000.0	69.8	-56.7		112.4	573.1	252.2	22.3	1.000025
61500.0	68.2	-57.1		109.9	572.6	265.9	21.2	1.000024
62000.0	66.5	-57.5		107.5	572.1	278.7	21.2	1.000024
62500.0	65.0	-57.9		105.1	571.6	280.0	21.0	1.000023
63000.0	63.4	-58.3		102.8	571.0	280.9	20.7	1.000023

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0830 HRS MST
ASCENSION NO. 30

UPPER AIR DATA
0180020030
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	60.4	-59.1		98.3	570.0	269.2	17.4	1.000022
64500.0	59.0	-59.5		96.2	569.5	258.3	14.8	1.000021
65000.0	57.6	-59.8		94.1	569.0	243.6	12.8	1.000021
65500.0	56.2	-60.2		92.0	568.5	243.9	12.7	1.000020
66000.0	54.9	-59.9		89.7	568.9	245.9	12.6	1.000020
66500.0	53.6	-59.5		87.3	569.5	257.6	15.7	1.000019
67000.0	52.3	-59.0		85.1	570.1	260.5	20.0	1.000019
67500.0	51.0	-58.6		82.9	570.7	271.9	24.2	1.000018
68000.0	49.8	-58.1		80.7	571.3	275.7	28.2	1.000018
68500.0	48.6	-57.2		78.5	572.5	280.6	27.7	1.000017
69000.0	47.5	-55.9		76.2	574.2	288.3	24.0	1.000017
69500.0	46.4	-52.5		73.3	578.6	299.5	19.7	1.000016
70000.0	45.3	-53.2		71.8	577.8	320.0	14.9	1.000016
70500.0	44.2	-53.9		70.3	576.9	348.8	13.1	1.000016
71000.0	43.2	-54.5		68.9	576.0	1.3	12.6	1.000015
71500.0	42.2	-55.2		67.5	575.1	14.2	12.7	1.000015
72000.0	41.2	-55.9		66.1	574.3	18.2	11.6	1.000015
72500.0	40.3	-56.5		64.7	573.4	21.1	10.2	1.000014
73000.0	39.3	-56.4		63.2	573.5	19.2	7.8	1.000014
73500.0	38.4	-56.0		61.6	574.1	6.1	4.8	1.000014
74000.0	37.5	-55.6		60.1	574.6	332.6	2.7	1.000013
74500.0	36.6	-55.2		58.6	575.1	295.9	2.4	1.000013
75000.0	35.8	-54.8		57.1	575.7	263.3	3.0	1.000013
75500.0	34.9	-54.4		55.7	576.2	34.6	2.2	1.000012
76000.0	34.1	-54.0		54.3	576.7	54.0	7.2	1.000012
76500.0	33.3	-53.6		52.9	577.3	55.1	11.9	1.000012
77000.0	32.6	-53.2		51.6	577.8	54.6	16.5	1.000011
77500.0	31.8	-52.8		50.3	578.3	53.6	19.7	1.000011
78000.0	31.1	-52.4		49.0	578.8	51.3	20.2	1.000011

UPPER AIR DATA
0180020030
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79
ASCENSION NO. 30

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
76500.0	30.3	-52.0		47.8	579.4	49.1	20.7	1.000011
79000.0	29.6	-51.7		46.6	579.7	49.3	22.0	1.000010
79500.0	29.0	-51.7		45.5	579.8	49.5	23.5	1.000010
80000.0	28.3	-51.6		44.5	579.9	51.1	24.6	1.000010
80500.0	27.6	-51.5		43.4	580.1	53.4	25.7	1.000010
81000.0	27.0	-51.4		42.4	580.2	55.5	26.3	1.000009
81500.0	26.4	-51.3		41.4	580.3	57.5	25.4	1.000009
82000.0	25.8	-51.2		40.4	580.4	59.7	24.5	1.000009
82500.0	25.2	-50.9		39.5	580.8	59.3	23.9	1.000009
83000.0	24.6	-50.2		38.5	581.7	58.6	23.3	1.000009
83500.0	24.1	-49.6		37.5	582.5	56.8	23.0	1.000008
84000.0	23.5	-49.0		36.5	583.3	53.8	22.9	1.000008
84500.0	23.0	-48.3		35.6	584.1	50.9	22.9	1.000008
85000.0	22.5	-47.7		34.7	585.0	48.9	22.7	1.000008
85500.0	21.9	-47.1		33.8	585.8	46.8	22.5	1.000008
86000.0	21.5	-46.4		33.0	586.6	44.2	21.2	1.000007
86500.0	21.0	-45.8		32.1	587.4	40.9	19.5	1.000007
87000.0	20.5	-45.2		31.3	588.2	37.8	18.4	1.000007
87500.0	20.0	-44.5		30.5	589.0	36.4	18.6	1.000007
88000.0	19.6	-43.5		29.7	590.4	35.0	18.9	1.000007
88500.0	19.1	-42.3		28.9	591.9	38.1	19.6	1.000006
89000.0	18.7	-42.3		28.3	591.9	44.6	21.0	1.000006
89500.0	18.3	-42.4		27.6	591.8	50.2	22.6	1.000006
90000.0	17.9	-42.5		27.1	591.6			1.000006
90500.0	17.5	-42.7		26.5	591.5			1.000006
91000.0	17.1	-42.8		25.9	591.3			1.000006
91500.0	16.7	-42.9		25.3	591.2			1.000006

STATION ALTITUDE 3989.00 FEET MSL
 18 JAN. 79
 ASCENSION NO. 30

MRN SIGNIFICANT LEVEL DATA
 0180020030
 WHITE SANDS
 TABLE VI.

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOPTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
2789.	9999.**	9999.**	-9999.**	-9999.**	99	-43.0		1.640+1
2686.	39.	10.	-8.	-6.	99	-42.2		1.910+1
2655.	36.	10.	-8.	-6.	99	-44.5		2.000+1
2498.	60.	12.	-6.	-11.	99	-51.1		2.540+1
2390.	49.	11.	-7.	-8.	99	-51.8		3.000+1
2205.	22.	5.	-5.	-2.	99	-56.7		4.000+1
2105.	294.	11.	-5.	10.	99	-52.3		4.680+1
2094.	288.	13.	-4.	12.	99	-56.4		4.760+1
2063.	275.	14.	-1.	14.	99	-58.2		5.000+1
1992.	244.	7.	3.	6.	99	-60.3		5.600+1
1851.	251.	12.	4.	11.	99	-56.7		7.000+1
1805.	216.	16.	14.	10.	99	-64.1		7.540+1
1710.	248.	21.	8.	20.	99	-61.7		8.800+1
1631.	238.	19.	10.	16.	99	-63.8		1.000+2

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** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
 18 JAN. 79
 ASCENSION NO. 30

MANDATORY LEVELS
 0180020030
 WHITE SANDS
 TABLE VII.

GEOGETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4861.	7.6	-1.1	54.	268.7	29.2
800.0	6490.	4.0	-4.2	55.	266.0	36.0
750.0	8208.	2.5	-9.0	42.	264.4	31.7
700.0	10025.	-1.5	-11.9	45.	9999.0XX	9999.0XX
650.0	11944.	-6.7	-13.8	57.	9999.0	9999.0XX
600.0	13977.	-9.8	-27.5	22.	9999.0	9999.0XX
550.0	16170.	-12.5	-33.8	15.	9999.0	9999.0XX
500.0	18537.	-16.9	-38.0	14.	9999.0	9999.0XX
450.0	21097.	-23.9	-43.1	15.	9999.0	9999.0XX
400.0	23883.	-30.5	-48.6	15.	243.1	75.2
350.0	26957.	-37.8			234.6	69.1
300.0	30381.	-45.7			239.6	89.6
250.0	34324.	-49.0			239.2	84.7
200.0	39114.	-53.5			231.0	57.8
175.0	41936.	-53.2			244.4	58.0
150.0	45169.	-56.7			246.7	53.1
125.0	48956.	-56.7			233.7	46.0
100.0	53514.	-63.8			237.9	36.1
80.0	58029.	-63.2			225.8	38.4
70.0	60740.	-56.7			249.9	22.6
60.0	63928.	-59.2			266.8	16.7
50.0	67673.	-58.2			275.0	27.3
40.0	72348.	-56.7			21.7	9.9
30.0	78400.	-51.8			49.2	21.2
25.0	82285.	-50.7			59.2	23.8
20.0	87122.	-44.5			36.4	18.6

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3400.00 FEET MSL
 18 JUL 79 0030 MRS MPT
 ASCENSION NO. 30
 MRN MANDATORY LEVELS
 0180020030
 WHITE SANDS
 TABLE VIII.
 GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECA METERS	DIRECTION DEG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS				AIR DEG C		
2655.	36.	10.	-8.		-6.	99	-44.5		2.000+1
2508.	59.	12.	-6.		-10.	99	-50.7		2.500+1
2390.	49.	11.	-7.		-8.	99	-51.8		3.000+1
2205.	22.	5.	-5.		-2.	99	-56.7		4.000+1
2063.	275.	14.	-1.		14.	99	-58.2		5.000+1
1949.	267.	9.	0.		9.	99	-59.2		6.000+1
1851.	250.	12.	4.		11.	99	-56.7		7.000+1
1769.	226.	20.	14.		14.	99	-63.2		8.000+1
1631.	238.	19.	10.		16.	99	-63.8		1.000+2
1492.	234.	24.	14.		19.	99	-56.7		1.250+2
1377.	247.	27.	11.		25.	99	-56.7		1.500+2
1278.	244.	30.	13.		27.	99	-53.2		1.750+2
1192.	231.	30.	19.		23.	99	-53.5		2.000+2
1046.	239.	44.	22.		37.	99	-49.0		2.500+2
926.	240.	46.	23.		40.	99	-45.7		3.000+2
822.	235.	30.	21.		29.	99	-37.8		3.500+2
728.	243.	39.	17.		35.	18	-30.5		4.000+2
643.	9999.**	9999.**	-9999.**		-9999.**	19	-23.9		4.500+2
565.	9999.**	9999.**	-9999.**		-9999.**	21	-16.9		5.000+2
493.	9999.**	9999.**	-9999.**		-9999.**	21	-12.5		5.500+2
426.	9999.**	9999.**	-9999.**		-9999.**	18	-9.8		6.000+2
364.	9999.**	9999.**	-9999.**		-9999.**	07	-6.7		6.500+2
306.	9999.**	9999.**	-9999.**		-9999.**	10	-1.5		7.000+2
250.	264.	10.	2.		16.	12	2.5		7.500+2
190.	266.	19.	1.		18.	08	4.0		8.000+2
148.	269.	15.	0.		15.	09	7.6		8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79
ASCENSION 110. 29 0630 HRS MST

SIGNIFICANT LEVEL DATA
0180020029
WHITE SANDS
TABLE IX.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT
876.3	3989.0	7.6	3.1	73.0
871.8	4128.9	9.4	4.0	69.0
850.0	4819.0	9.0	1.7	60.0
820.8	5705.5	6.0	-5	63.0
790.4	6777.3	3.6	-1.3	70.0
751.0	8135.2	.8	-5.8	61.0
722.0	9174.3	.5	-13.2	35.0
700.0	9909.8	.3	-15.2	30.0
629.4	12763.9	-4.8	-26.0	17.0
551.4	16128.2	-13.5	-29.3	25.0
510.4	18042.9	-18.3	-36.2	19.0
500.0	18548.5	-18.2	-37.2	17.0
486.6	19217.3	-17.0	-36.8	16.0
471.2	20009.1	-18.2	-37.8	16.0
400.0	23946.9	-29.2	-46.4	17.0
374.2	25502.6	-32.9	-51.2	14.0
343.6	27401.5	-37.0		
300.0	30502.0	-44.5		
250.0	34453.1	-52.4		
221.8	36908.2	-54.8		
212.0	37943.2	-53.5		
200.0	39161.4	-52.4		
188.2	40479.7	-51.5		
170.4	42593.5	-54.0		
166.0	43147.6	-53.5		
150.0	45277.6	-57.5		
130.4	48168.3	-61.3		
115.8	50607.0	-59.8		
100.0	53602.1	-63.9		
94.8	54608.0	-61.6		

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STATION ALTITUDE 3989.00 FEET MSL
 18 JAN. 79 0630 HRS MST
 ASCENSION NO. 29

SIGNIFICANT LEVEL DATA
 0180020029
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

PRESSURE GEOMETRIC MILLIBARS MSL FEET	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	REL. HUM. PERCENT
88.6 56061.0	-64.7	
83.4 57293.5	-60.0	
70.0 60879.7	-62.8	
60.2 63993.6	-56.6	
50.0 67870.8	-58.0	
46.4 69422.1	-59.3	
38.6 73267.0	-55.4	
35.6 74963.1	-57.9	
33.0 76555.8	-54.7	
30.0 78571.2	-55.0	
20.0 87280.9	-48.0	
13.8 95466.9	-43.4	

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STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

UPPER AIR DATA
0180020029
WHITE SANDS
TABLE X.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	876.3	7.6	73.0	1083.8	653.8	180.0	9.7	1.000278
4000.0	875.9	7.7	72.7	1082.8	654.0			1.000278
4500.0	860.0	9.2	64.2	1057.7	655.7			1.000271
5000.0	844.3	8.4	60.6	1041.5	654.7			1.000264
5500.0	828.9	6.8	62.2	1028.4	652.8			1.000259
6000.0	813.7	5.4	64.6	1014.7	651.1			1.000254
6500.0	798.6	4.3	68.1	1000.2	649.7			1.000251
7000.0	783.8	3.1	68.5	985.8	648.4			1.000246
7500.0	769.2	2.1	65.2	971.2	647.1			1.000240
8000.0	754.8	1.1	61.9	956.9	645.8			1.000234
8500.0	740.7	.7	51.9	940.6	645.2			1.000226
9000.0	726.8	.6	39.4	923.8	644.9			1.000218
9500.0	713.1	.4	33.0	907.1	644.7			1.000213
10000.0	699.7	.3	30.0	890.6	644.5			1.000208
10500.0	686.4	-.6	27.6	876.7	643.4			1.000204
11000.0	673.4	-1.6	25.3	863.1	642.3			1.000199
11500.0	660.6	-2.5	22.9	849.7	641.2			1.000195
12000.0	648.1	-3.4	20.6	836.5	640.0	261.1	39.4	1.000191
12500.0	635.8	-4.3	18.2	823.5	638.9	261.4	38.8	1.000188
13000.0	623.6	-5.4	17.6	811.0	637.6	261.7	38.5	1.000184
13500.0	611.4	-6.7	18.8	799.1	636.1	262.3	40.2	1.000182
14000.0	599.5	-8.0	19.9	787.4	634.5	262.8	41.9	1.000179
14500.0	587.9	-9.3	21.1	775.8	633.0	263.3	43.2	1.000176
15000.0	576.4	-10.6	22.3	764.5	631.4	263.7	43.9	1.000174
15500.0	565.2	-11.9	23.5	753.3	629.8	264.1	44.6	1.000171
16000.0	554.2	-13.2	24.7	742.3	628.3	263.7	44.1	1.000168
16500.0	543.2	-14.4	23.8	731.2	626.7	263.2	43.3	1.000166
17000.0	532.3	-15.7	22.3	720.1	625.2	260.0	47.7	1.000163
17500.0	521.7	-16.9	20.7	709.2	623.7	256.0	56.1	1.000160
18000.0	511.3	-18.2	19.1	698.5	622.1	253.1	62.4	1.000157

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

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STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

UPPER AIR DATA
0180020029
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
18500.0	501.0	-18.2	17.2	684.5	622.1	250.6	65.9	1.000154
19000.0	490.9	-17.4	16.3	668.5	623.1	248.3	66.5	1.000150
19500.0	481.0	-17.4	16.0	655.2	623.0	245.9	62.3	1.000147
20000.0	471.4	-18.2	16.0	643.9	622.1	242.8	61.8	1.000145
20500.0	461.7	-19.6	16.1	634.1	620.4	239.4	65.0	1.000142
21000.0	452.2	-21.0	16.3	624.5	618.7	234.9	67.9	1.000140
21500.0	442.9	-22.4	16.4	615.1	617.0	230.4	71.0	1.000138
22000.0	433.7	-23.8	16.5	605.8	615.3	225.2	70.5	1.000136
22500.0	424.8	-25.2	16.6	596.7	613.5	220.2	70.5	1.000134
23000.0	416.1	-26.6	16.8	587.7	611.8	218.1	71.4	1.000132
23500.0	407.5	-28.0	16.9	578.9	610.1	217.0	72.5	1.000130
24000.0	399.1	-29.3	16.9	570.2	608.3	219.2	74.2	1.000128
24500.0	390.6	-30.5	15.9	560.8	606.9	221.4	75.9	1.000125
25000.0	382.3	-31.7	15.0	551.6	605.4	223.7	75.8	1.000123
25500.0	374.2	-32.9	14.0	542.6	603.9	226.0	75.7	1.000121
26000.0	366.2	-33.9	10.4**	533.3	602.5	227.5	75.3	1.000119
26500.0	358.3	-35.0	6.9**	524.1	601.2	228.9	74.7	1.000117
27000.0	350.6	-36.0	3.3**	515.1	599.9	229.9	74.0	1.000115
27500.0	343.0	-37.1		506.2	598.6	230.8	73.2	1.000113
28000.0	335.4	-38.3		497.6	597.0	231.6	73.4	1.000111
28500.0	328.0	-39.6		489.2	595.4	232.2	74.3	1.000109
29000.0	320.8	-40.8		481.0	593.8	232.4	76.1	1.000107
29500.0	313.7	-42.0		472.9	592.3	232.5	77.7	1.000105
30000.0	306.8	-43.3		464.9	590.7	232.2	78.0	1.000104
30500.0	300.0	-44.5		457.1	589.1	231.9	78.3	1.000102
31000.0	293.2	-45.5		448.6	587.8	231.4	78.9	1.000100
31500.0	286.5	-46.5		440.3	586.5	230.5	79.2	1.000098
32000.0	280.0	-47.5		432.2	585.2	228.9	78.8	1.000096
32500.0	273.6	-48.5		424.2	583.9	227.0	76.3	1.000094
33000.0	267.3	-49.5		416.4	582.6	224.4	70.6	1.000093

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GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

UPPER AIR DATA
0180020029
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
33500.0	261.2	-50.5		408.7	581.3	221.9	64.8	1.000091
34000.0	255.3	-51.5		401.2	580.0	220.2	58.7	1.000089
34500.0	249.4	-52.4		393.7	578.8	219.9	55.7	1.000088
35000.0	243.6	-52.9		385.4	578.1	224.1	62.4	1.000086
35500.0	237.9	-53.4		377.2	577.5	228.0	71.7	1.000084
36000.0	232.4	-53.9		369.2	576.9	231.9	86.2	1.000082
36500.0	227.0	-54.3		361.4	576.3	234.0	96.4	1.000080
37000.0	221.7	-54.8		353.6	575.7	234.8	99.4	1.000079
37500.0	216.5	-54.1		344.3	576.6	235.3	98.2	1.000077
38000.0	211.4	-53.4		335.3	577.4	235.3	89.6	1.000075
38500.0	206.5	-53.0		326.8	578.0	235.6	81.0	1.000073
39000.0	201.7	-52.6		318.6	578.6	230.7	72.1	1.000071
39500.0	197.0	-52.2		310.6	579.1	238.0	64.3	1.000069
40000.0	192.5	-51.8		303.0	579.6	239.6	58.8	1.000067
40500.0	188.0	-51.5		295.5	580.0	240.8	56.2	1.000066
41000.0	183.7	-52.1		289.4	579.2	240.9	59.2	1.000064
41500.0	179.4	-52.7		283.5	578.4	240.8	61.8	1.000063
42000.0	175.2	-53.3		277.6	577.6	240.6	63.7	1.000062
42500.0	171.2	-53.9		271.9	576.9	240.3	65.6	1.000061
43000.0	167.2	-53.6		265.3	577.2	240.8	58.7	1.000059
43500.0	163.2	-54.2		259.7	576.5	241.5	51.7	1.000058
44000.0	159.4	-55.1		254.7	575.3	242.3	44.5	1.000057
44500.0	155.7	-56.0		249.8	574.0	243.6	37.0	1.000056
45000.0	152.0	-57.0		244.9	572.8	245.4	29.8	1.000055
45500.0	148.4	-57.8		240.0	571.7	245.6	29.1	1.000053
46000.0	144.8	-58.4		235.0	570.6	245.9	28.4	1.000052
46500.0	141.4	-59.1		230.1	570.0	245.0	32.6	1.000051
47000.0	138.0	-59.8		225.3	569.1	243.7	41.6	1.000050
47500.0	134.7	-60.4		220.6	568.2	242.9	50.3	1.000049
48000.0	131.5	-61.1		216.0	567.3	242.6	57.4	1.000048

UPPER AIR DATA
0180020029
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
48500.0	128.3	-61.1		210.8	567.3	242.5	64.4	1.000047
49000.0	125.2	-60.8		205.4	567.7	242.8	64.3	1.000046
49500.0	122.2	-60.5		200.2	568.1	243.2	63.4	1.000045
50000.0	119.3	-60.2		195.1	568.5	243.8	63.2	1.000043
50500.0	116.4	-59.9		190.1	569.0	244.7	63.1	1.000042
51000.0	113.6	-60.3		185.9	568.3	245.5	63.4	1.000041
51500.0	110.8	-61.0		182.0	567.4	246.4	64.2	1.000041
52000.0	108.2	-61.7		178.2	566.5	247.1	65.0	1.000040
52500.0	105.5	-62.4		174.5	565.6	247.0	65.1	1.000039
53000.0	103.0	-63.1		170.8	564.7	248.8	65.3	1.000038
53500.0	100.5	-63.8		167.2	563.7	246.5	64.3	1.000037
54000.0	98.1	-63.1		162.6	564.7	246.1	62.8	1.000036
54500.0	95.7	-62.0		157.9	566.1	246.5	58.9	1.000035
55000.0	93.4	-62.3		154.2	565.7	248.2	52.2	1.000034
55500.0	91.1	-63.4		151.3	564.2	250.2	45.5	1.000034
56000.0	88.9	-64.6		148.4	562.7	252.3	38.4	1.000033
56500.0	86.7	-63.0		143.8	564.7	255.2	31.3	1.000032
57000.0	84.6	-61.1		139.0	567.3	252.3	27.8	1.000031
57500.0	82.6	-60.2		135.0	568.6	247.4	25.1	1.000030
58000.0	80.6	-60.6		132.0	568.0	240.6	23.6	1.000029
58500.0	78.6	-60.9		129.1	567.5	232.6	23.9	1.000029
59000.0	76.7	-61.3		126.2	567.0	224.9	24.6	1.000028
59500.0	74.9	-61.7		123.4	566.5	221.9	24.5	1.000027
60000.0	73.1	-62.1		120.6	565.9	218.9	24.3	1.000027
60500.0	71.3	-62.5		117.9	565.4	218.5	23.3	1.000026
61000.0	69.6	-62.6		115.1	565.3	220.6	21.4	1.000026
61500.0	67.9	-61.6		111.8	566.7	223.5	19.6	1.000025
62000.0	66.3	-60.6		108.7	568.0	228.9	18.4	1.000024
62500.0	64.7	-59.6		105.6	569.3	234.9	17.3	1.000023
63000.0	63.2	-58.6		102.6	570.7	239.6	17.2	1.000023

STATION ALTITUDE 3989.00 FEET MSL
 18 JAN. 79 0630 HRS MST
 ASCENSION NO. 29

UPPER AIR DATA
 0180020029
 WHITE SANDS

GEODETIC COORDINATES
 32.40043 LAT DEG
 106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
63500.0	61.7	-57.6			99.6	572.0	244.1	17.3	1.000022
64000.0	60.2	-56.6			96.8	573.3	247.1	17.8	1.000022
64500.0	58.8	-56.8			94.6	573.0	248.9	18.7	1.000021
65000.0	57.4	-57.0			92.4	572.8	250.4	19.4	1.000021
65500.0	56.0	-57.1			90.3	572.6	251.3	19.9	1.000020
66000.0	54.7	-57.3			88.3	572.3	252.1	20.4	1.000020
66500.0	53.4	-57.5			86.3	572.1	253.6	20.6	1.000019
67000.0	52.1	-57.7			84.3	571.9	255.2	20.8	1.000019
67500.0	50.9	-57.9			82.4	571.6	257.0	20.9	1.000018
68000.0	49.7	-58.1			80.5	571.3	259.0	20.8	1.000018
68500.0	48.5	-58.5			78.7	570.7	261.1	20.8	1.000018
69000.0	47.4	-58.9			77.0	570.2	262.7	20.1	1.000017
69500.0	46.2	-59.2			75.3	569.8	264.3	19.3	1.000017
70000.0	45.1	-58.7			73.3	570.5	265.6	18.6	1.000016
70500.0	44.1	-58.2			71.4	571.2	266.5	17.8	1.000016
71000.0	43.0	-57.7			69.6	571.8	267.5	17.0	1.000015
71500.0	42.0	-57.2			67.8	572.5	269.1	16.1	1.000015
72000.0	41.0	-56.7			66.0	573.2	270.9	15.2	1.000015
72500.0	40.0	-56.2			64.3	573.8	274.2	14.0	1.000014
73000.0	39.1	-55.7			62.6	574.5	280.9	12.1	1.000014
73500.0	38.2	-55.7			61.2	574.4	269.9	10.4	1.000014
74000.0	37.3	-56.5			59.9	573.4	305.1	8.9	1.000013
74500.0	36.4	-57.2			58.7	572.5	325.8	8.1	1.000013
75000.0	35.5	-57.8			57.5	571.7	345.4	8.5	1.000013
75500.0	34.7	-56.8			55.9	573.0	354.5	9.2	1.000012
76000.0	33.9	-55.8			54.3	574.3	2.2	10.1	1.000012
76500.0	33.1	-54.8			52.8	575.7	5.1	10.6	1.000012
77000.0	32.3	-54.8			51.5	575.7	5.3	10.7	1.000011
77500.0	31.6	-54.8			50.4	575.6	5.0	10.7	1.000011
78000.0	30.8	-54.9			49.2	575.5	2.7	10.6	1.000011

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

UPPER AIR DATA
0180020029
WHITE SANDS

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES(TN)	SPEED KNOTS	
78500.0	30.1	-55.0		48.1	575.4	359.6	10.4	1.000011
79000.0	29.4	-54.7		46.9	575.9	356.8	10.8	1.000010
79500.0	28.7	-54.3		45.7	576.4	355.0	12.5	1.000010
80000.0	28.1	-53.9		44.6	576.9	353.7	14.1	1.000010
80500.0	27.4	-53.4		43.5	577.4	355.4	16.0	1.000010
81000.0	26.8	-53.0		42.4	578.0	359.0	18.2	1.000009
81500.0	26.2	-52.6		41.4	578.5	1.8	20.5	1.000009
82000.0	25.6	-52.2		40.3	579.0	6.5	21.2	1.000009
82500.0	25.0	-51.8		39.3	579.6	12.0	21.3	1.000009
83000.0	24.4	-51.4		38.4	580.1	17.4	21.7	1.000009
83500.0	23.8	-51.0		37.4	580.6	23.7	21.5	1.000008
84000.0	23.3	-50.6		36.5	581.1	30.0	21.5	1.000008
84500.0	22.8	-50.2		35.6	581.7	35.9	21.6	1.000008
85000.0	22.2	-49.8		34.7	582.2	38.8	21.6	1.000008
85500.0	21.7	-49.4		33.6	582.7	41.6	21.6	1.000008
86000.0	21.2	-49.0		33.0	583.2	43.6	21.4	1.000007
86500.0	20.7	-48.6		32.2	583.7	43.9	20.6	1.000007
87000.0	20.3	-48.2		31.4	584.3	44.2	19.9	1.000007
87500.0	19.8	-47.9		30.6	584.7	43.8	18.7	1.000007
88000.0	19.4	-47.6		29.9	585.1	42.7	17.3	1.000007
88500.0	18.9	-47.3		29.2	585.5	41.5	15.8	1.000006
89000.0	18.5	-47.0		28.5	585.8	41.8	15.7	1.000006
89500.0	18.1	-46.8		27.8	586.2	42.8	16.3	1.000006
90000.0	17.7	-46.5		27.2	586.5	43.8	16.9	1.000006
90500.0	17.3	-46.2		26.5	586.9	44.5	17.5	1.000006
91000.0	16.9	-45.9		25.9	587.3	45.1	18.1	1.000006
91500.0	16.5	-45.6		25.3	587.6	45.7	18.7	1.000006
92000.0	16.1	-45.3		24.7	588.0	47.1	20.3	1.000005
92500.0	15.8	-45.1		24.1	588.4	48.4	22.1	1.000005
93000.0	15.4	-44.8		23.5	588.7	49.5	23.9	1.000005

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79
ASCENSION NO. 29 0630 HRS MST

UPPER AIR DATA
0180020029
WHITE SANDS

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
93500.0	15.1	-44.5		23.0	589.1			1.000005
94000.0	14.7	-44.2		22.4	589.4			1.000005
94500.0	14.4	-43.9		21.9	589.8			1.000005
95000.0	14.1	-43.7		21.4	590.2			1.000005

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

MRN SIGNIFICANT LEVEL DATA
0180020029
WHITE SANDS
TABLE XI.

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	DEW PT DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
2895.	9999.**	9999.**	-9999.**	-9999.**	99	-43.4	1.380+1	
2648.	44.	10.	-7.	-7.	99	-48.0	2.000+1	
2385.	359.	5.	-5.	0.	99	-55.0	3.000+1	
2324.	5.	5.	-5.	-0.	99	-54.7	3.300+1	
2276.	345.	4.	-4.	1.	99	-57.9	3.560+1	
2224.	285.	6.	-2.	6.	99	-55.4	3.860+1	
2108.	264.	10.	1.	10.	99	-59.3	4.640+1	
2061.	258.	11.	2.	10.	99	-58.0	5.000+1	
1944.	247.	9.	4.	8.	99	-56.6	6.020+1	
1849.	220.	11.	9.	7.	99	-62.8	7.000+1	
1741.	250.	13.	5.	13.	99	-60.0	8.340+1	
1703.	253.	19.	6.	18.	99	-64.7	8.860+1	
1662.	247.	29.	11.	27.	99	-61.6	9.480+1	
1629.	246.	33.	13.	30.	99	-63.9	1.000+2	

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** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

MANDATORY LEVELS
0180020029
WHITE SANDS
TABLE XII.

GEODETTIC COORDINATES
32.40043 LAT DEG
106.37033 LONG DEG

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4815.	9.0	1.7	60.	9999.0	9999.0XX
800.0	6449.	4.4	-1.1	68.	9999.0	9999.0XX
750.0	8163.	.8	-6.0	60.	9999.0	9999.0XX
700.0	9980.	.3	-15.2	30.	9999.0	9999.0XX
650.0	11910.	-3.3	-22.4	21.	261.1	39.5
600.0	13977.	-7.9	-27.0	20.	262.8	41.9
550.0	16171.	-13.7	-29.5	25.	263.5	43.8
500.0	18523.	-18.2	-37.2	17.	250.4	66.2
450.0	21101.	-21.3	-40.2	16.	233.8	68.6
400.0	23908.	-29.2	-46.4	17.	218.9	73.9
350.0	26992.	-36.1	-65.6	3.88	230.0	74.0
300.0	30442.	-44.5			231.9	78.3
250.0	34379.	-52.4			219.3	54.9
200.0	39088.	-52.4			237.1	69.2
175.0	41924.	-53.3			240.6	63.7
150.0	45157.	-57.5			245.5	29.4
125.0	48896.	-60.8			242.8	64.3
100.0	53438.	-63.9			246.4	64.0
80.0	57959.	-60.7			238.7	23.7
70.0	60672.	-62.8			219.9	21.9
60.0	63835.	-55.6			247.2	17.9
50.0	67617.	-58.0			258.3	20.8
40.0	72230.	-56.2			274.0	14.0
30.0	78237.	-55.0			359.4	10.4
25.0	82087.	-51.9			11.1	21.3
20.0	86874.	-48.0			44.3	19.5
15.0	93147.	-44.4				

.. AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL
18 JAN. 79 0630 HRS MST
ASCENSION NO. 29

MRN MANDATORY LEVELS
0180020029
WHITE SANDS
TABLE XIII.

GEODETIC COORDINATES
32.40043 LAT DEG
106.37033 LON DEG

GEOPOTENTIAL ALTITUDE DECAMETERS	DIRECTION UEG (TN)	SPEED MPS	WIND DATA		E-W MPS	DEW PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
			N-S MPS				AIR DEG C		
2639.	9999.**	9999.**	-9999.**		-9999.**	99	-44.4		1.500+1
2646.	44.	10.	-7.		-7.	99	-48.0		2.000+1
2502.	11.	11.	-11.		-2.	99	-51.9		2.500+1
2385.	359.	5.	-5.		0.	99	-55.0		3.000+1
2202.	274.	7.	-1.		7.	99	-56.2		4.000+1
2061.	258.	11.	2.		10.	99	-58.0		5.000+1
1946.	247.	9.	4.		8.	99	-56.6		6.000+1
1849.	220.	11.	9.		7.	99	-62.8		7.000+1
1767.	239.	12.	6.		10.	99	-60.7		8.000+1
1629.	246.	33.	13.		30.	99	-63.9		1.000+2
1490.	243.	33.	15.		29.	99	-60.8		1.250+2
1376.	246.	15.	6.		14.	99	-57.5		1.500+2
1278.	241.	33.	16.		29.	99	-53.3		1.750+2
1191.	237.	36.	19.		30.	99	-52.4		2.000+2
1048.	219.	26.	22.		16.	99	-52.4		2.500+2
928.	232.	40.	25.		32.	99	-44.5		3.000+2
823.	230.	38.	24.		29.	29	-36.1		3.500+2
729.	219.	38.	30.		24.	17	-29.2		4.000+2
643.	234.	35.	21.		28.	19	-21.3		4.500+2
565.	250.	34.	11.		32.	19	-18.2		5.000+2
493.	264.	23.	3.		22.	16	-13.7		5.500+2
426.	263.	22.	3.		21.	19	-7.9		6.000+2
363.	261.	20.	3.		20.	19	-3.3		6.500+2
304.	9999.**	9999.**	-9999.**		-9999.**	16	.3		7.000+2
249.	9999.**	9999.**	-9999.**		-9999.**	07	.8		7.500+2
197.	9999.**	9999.**	-9999.**		-9999.**	05	4.4		8.000+2
147.	9999.**	9999.**	-9999.**		-9999.**	07	9.0		8.500+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4051.00 FEET MSL
18 JAN. 79
ASCENSION NO. 9

SIGNIFICANT LEVEL DATA
0180030009
JALLEN
TABLE XIV.

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

PRESSURE GEOMETRIC ALTITUDE		TEMPERATURE		REL. HUM. PERCENT
MILLIBARS	MSL FEET	AIR DEGREES	DEWPOINT CENTIGRADE	
873.7	4051.0	8.0	4.2	77.0
864.3	4345.2	9.3	2.2	61.0
850.0	4799.1	8.4	1.8	63.0
817.4	5856.5	5.8	.6	69.0
776.0	7245.4	1.8	.2	89.0
762.6	7705.6	-5	-6	99.0
745.6	8299.9	.7	-4.7	67.0
700.0	9956.9	-2.2	-12.8	44.0
667.4	11197.0	-4.3	-16.1	39.0
636.5	12417.3	-7.7	-13.1	65.0
584.8	14567.7	-11.8	-19.2	54.0
550.2	16095.7	-14.4	-27.1	33.0
508.4	18046.5	-19.3	-34.7	24.0
500.0	18423.0	-20.5	-34.9	26.0
460.6	20429.5	-25.9	-34.3	45.0
437.8	21622.3	-28.6	-43.5	22.0
420.7	22509.4	-29.5	-49.7	12.0
408.2	23279.9	-27.9		
400.0	23758.3	-29.0		
339.4	27553.6	-37.9		
300.0	30322.5	-42.9		
250.0	34294.4	-51.6		
233.6	35757.6	-53.7		
223.2	36707.7	-51.0		
200.0	39064.0	-50.2		
188.8	40303.7	-50.2		
175.2	41898.0	-54.2		
166.6	42922.8	-53.8		
150.0	45103.3	-59.2		
138.4	46826.6	-60.1		

STATION ALTITUDE 4051.00 FEET MSL
18 JAN. 79 0700 HRS MST
ASCENSION NO. 9

UPPER AIR DATA
0180030009
JALLEN
TABLE XV.

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE HILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
4051.0	873.7	8.0	77.0	1078.7	654.4	185.0	11.1	1.000260
4500.0	859.4	9.0	61.7	1057.8	655.4	192.8	11.8	1.000269
5000.0	843.7	7.9	64.1	1042.6	654.1	200.4	12.8	1.000265
5500.0	828.2	6.7	67.0	1028.0	652.7	206.7	14.0	1.000261
6000.0	813.0	5.4	71.1	1013.8	651.1	214.5	17.7	1.000257
6500.0	798.0	3.9	78.3	1000.2	649.5	221.0	24.4	1.000254
7000.0	783.2	2.5	85.5	986.7	647.8	232.4	28.3	1.000251
7500.0	766.6	.5	94.5	975.4	645.4	242.6	30.5	1.000248
8000.0	754.1	.1	83.1	959.0	644.8	247.5	33.8	1.000240
8500.0	739.9	.3	64.2	940.5	644.9	248.7	39.4	1.000230
9000.0	726.0	-.5	57.3	926.0	643.8	247.5	42.4	1.000223
9500.0	712.3	-1.4	50.3	911.8	642.7	249.5	40.6	1.000217
10000.0	698.8	-2.3	43.8	897.7	641.6	252.4	38.1	1.000212
10500.0	685.5	-3.1	41.8	883.4	640.5	255.6	36.7	1.000207
11000.0	672.5	-4.0	39.8	869.4	639.5	258.5	37.1	1.000203
11500.0	659.6	-5.1	45.5	856.4	638.1	261.1	38.5	1.000201
12000.0	646.9	-6.5	56.1	844.2	636.5	263.8	37.7	1.000199
12500.0	634.4	-7.9	64.6	832.0	635.0	268.9	36.0	1.000197
13000.0	622.1	-8.8	62.0	818.8	633.8	269.5	34.4	1.000193
13500.0	609.9	-9.8	59.5	805.8	632.6	271.2	32.7	1.000189
14000.0	596.0	-10.7	56.9	793.1	631.4	273.1	31.1	1.000185
14500.0	586.4	-11.7	54.3	780.5	630.2	272.3	32.0	1.000181
15000.0	574.8	-12.5	48.1	767.8	629.1	271.4	33.2	1.000177
15500.0	563.4	-13.4	41.2	755.2	628.1	270.5	34.7	1.000173
16000.0	552.3	-14.2	34.3	742.8	627.0	269.6	36.7	1.000169
16500.0	541.3	-15.4	31.1	731.3	625.6	268.7	38.7	1.000166
17000.0	530.4	-16.7	28.8	720.2	624.0	267.8	40.2	1.000163
17500.0	519.8	-17.9	26.5	709.3	622.5	266.9	41.6	1.000160
18000.0	509.4	-19.2	24.2	698.5	620.9	266.4	42.5	1.000157
18500.0	499.0	-20.6	26.5	688.3	619.1	266.8	41.6	1.000155

STATION ALTITUDE 4051.00 FEET MSL
18 JAN. 79 0700 HRS MST
ASCENSION NO. 9

SIGNIFICANT LEVEL DATA
0180030009
JALLEN
TABLE XVI.

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE AIR DEWPOINT	REL. HUM. PERCENT
MILLIBARS	MSL FEET	DEGREES CENTIGRADE	
128.3	48375.6	-62.9	
123.6	49138.0	-60.4	
113.0	50977.3	-61.2	
100.0	53542.3	-50.7	
94.0	54806.2	-52.8	
88.0	56252.1	-53.7	
79.4	58301.2	-63.3	
70.0	60945.9	-58.7	
57.8	64949.7	-55.3	
53.0	66760.6	-59.2	
50.0	67971.7	-57.5	
46.2	69618.3	-58.3	
43.4	70932.9	-53.5	
36.0	74877.5	-56.9	
30.0	78727.8	-53.3	
20.0	87450.4	-47.5	
15.0	93830.2	-43.6	
13.0	97045.1	-39.6	
10.0	102985.2	-40.2	
8.4	106927.7	-40.4	

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

UPPER AIR DATA
0180030009
JALLEN
TABLE XVII.

STATION ALTITUDE 4051.00 FEET MSL
18 JAN. 79 0700 HRS MST
ASCENSION NO. 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
19000.0	488.8	-22.0	31.3	677.8	617.5	267.3	40.6	1.000153
19500.0	478.7	-23.4	36.1	667.5	615.8	260.3	40.2	1.000151
20000.0	468.9	-24.7	40.9	657.3	614.1	265.2	39.9	1.000148
20500.0	459.2	-26.1	43.7	647.3	612.5	263.0	42.3	1.000146
21000.0	449.6	-27.2	34.1	636.7	611.0	260.8	45.5	1.000143
21500.0	440.3	-28.3	24.5	626.3	609.6	257.3	50.7	1.000140
22000.0	431.0	-29.0	18.1	614.8	608.8	253.9	56.3	1.000138
22500.0	421.9	-29.4	12.7	603.1	608.2	248.2	63.4	1.000135
23000.0	413.1	-28.5	4.7**	588.3	609.3	244.3	70.1	1.000131
23500.0	404.4	-28.4		575.6	609.5	241.6	75.7	1.000128
24000.0	395.8	-29.6		566.1	608.0	240.6	78.5	1.000126
24500.0	387.4	-30.7		556.7	606.6	240.2	80.4	1.000124
25000.0	379.1	-31.9		547.4	605.1	239.3	80.1	1.000122
25500.0	371.0	-33.1		538.3	603.6	238.3	79.8	1.000120
26000.0	363.0	-34.3		529.4	602.1	237.0	79.3	1.000118
26500.0	355.2	-35.4		520.6	600.7	235.7	80.1	1.000116
27000.0	347.6	-36.6		512.0	599.2	234.4	82.6	1.000114
27500.0	340.2	-37.8		503.5	597.7	233.4	85.4	1.000112
28000.0	332.7	-38.7		494.4	596.5	232.5	88.6	1.000110
28500.0	325.4	-39.6		485.4	595.4	232.0	89.0	1.000108
29000.0	318.2	-40.5		476.5	594.2	231.7	88.7	1.000106
29500.0	311.2	-41.4		467.8	593.0	231.0	86.5	1.000104
30000.0	304.3	-42.3		459.3	591.9	230.3	84.0	1.000102
30500.0	297.6	-43.3		451.0	590.6	229.8	81.4	1.000100
31000.0	290.8	-44.4		442.9	589.2	229.4	79.0	1.000099
31500.0	284.2	-45.5		434.9	587.8	229.9	78.0	1.000097
32000.0	277.8	-46.6		427.1	586.4	230.4	77.4	1.000095
32500.0	271.5	-47.7		419.4	585.0	230.7	78.6	1.000093
33000.0	265.3	-48.8		411.9	583.6	231.1	79.8	1.000092
33500.0	259.3	-49.9		404.5	582.1	231.5	80.7	1.000090

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

GEODETIC COORDINATES
33.16712 LAT DEG
106.49511 LON DEG

UPPER AIR DATA
0160C30009
JALLEN

STATION ALTITUDE 4051.00 FEET MSL
18 JAN. 79 0700 HRS MST
ASCENSION NO. 9

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
34000.0	253.4	-51.0		397.3	580.7	232.1	81.3	1.000088
34500.0	247.6	-51.9		389.8	579.5	233.6	80.5	1.000087
35000.0	241.8	-52.6		382.0	578.5	235.0	79.3	1.000085
35500.0	236.2	-53.4		374.4	577.6	230.2	76.7	1.000083
36000.0	230.7	-53.0		365.1	578.1	237.0	73.8	1.000081
36500.0	225.4	-51.6		354.4	579.9	236.5	69.9	1.000079
37000.0	220.2	-50.9		345.1	580.8	235.9	66.6	1.000077
37500.0	215.1	-50.8		337.0	581.0	235.2	64.3	1.000075
38000.0	210.2	-50.6		329.0	581.2	234.8	61.9	1.000073
38500.0	205.3	-50.5		321.2	581.4	234.7	59.5	1.000072
39000.0	200.6	-50.3		313.6	581.5	234.7	57.1	1.000070
39500.0	196.0	-50.3		306.3	581.6	234.8	54.9	1.000068
40000.0	191.5	-50.2		299.2	581.7	233.0	52.7	1.000067
40500.0	187.1	-50.7		292.9	581.1	234.9	51.4	1.000065
41000.0	182.7	-51.9		287.8	579.4	234.9	50.2	1.000064
41500.0	178.5	-53.2		282.7	577.8	234.8	49.1	1.000063
42000.0	174.4	-54.2		277.4	576.5	234.5	46.4	1.000062
42500.0	170.3	-54.0		270.7	576.8	234.1	43.6	1.000060
43000.0	166.3	-53.9		264.2	576.9	233.7	41.0	1.000059
43500.0	162.4	-54.9		259.2	575.6	233.6	39.4	1.000058
44000.0	158.6	-55.9		254.2	574.3	233.5	37.7	1.000057
44500.0	154.8	-56.9		249.4	572.9	233.7	37.7	1.000056
45000.0	151.2	-57.9		244.6	571.6	234.1	39.2	1.000054
45500.0	147.6	-58.6		239.6	570.7	234.5	40.7	1.000053
46000.0	144.0	-59.2		234.5	569.9	235.2	42.2	1.000052
46500.0	140.6	-59.7		229.5	569.1	235.6	43.7	1.000051
47000.0	137.2	-60.4		224.7	568.2	237.0	46.8	1.000050
47500.0	133.9	-61.3		220.2	567.0	238.3	50.9	1.000049
48000.0	130.7	-62.2		215.8	565.8	239.5	55.3	1.000048
48500.0	127.5	-62.5		210.9	563.4	240.6	60.9	1.000047

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GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
						U DIRECTION DEGREES (TH)	SPEED KNOTS	
49000.0	124.4	-60.9		204.2	567.6	241.6	66.4	1.000045
49500.0	121.4	-60.6		199.0	568.0	242.6	68.2	1.000044
50000.0	118.5	-60.6		194.4	567.7	244.1	69.0	1.000043
50500.0	115.7	-61.0		189.9	567.4	245.4	70.3	1.000042
51000.0	112.9	-61.1		185.4	567.3	246.7	72.7	1.000041
51500.0	110.2	-59.1		179.3	570.0	247.7	75.3	1.000040
52000.0	107.6	-57.0		173.5	572.7	247.9	78.4	1.000039
52500.0	105.1	-55.0		167.8	575.4	248.7	68.5	1.000037
53000.0	102.6	-52.9		162.3	576.1	251.0	46.6	1.000036
53500.0	100.2	-50.9		157.0	580.8	254.4	24.5	1.000035
54000.0	97.9	-51.4		153.8	580.1	275.8	5.6	1.000034
54500.0	95.6	-52.2		150.8	579.1	264.9	5.3	1.000034
55000.0	93.4	-53.4		148.0	577.6	253.1	5.2	1.000033
55500.0	91.2	-55.5		146.0	574.7	250.5	4.9	1.000033
56000.0	89.1	-57.6		144.0	571.9	256.2	4.5	1.000032
56500.0	86.9	-59.2		141.6	569.8	263.2	4.1	1.000032
57000.0	84.8	-60.3		138.9	568.3	271.2	3.8	1.000031
57500.0	82.8	-61.4		136.2	566.9	280.0	3.6	1.000030
58000.0	80.8	-62.5		133.6	565.4	289.5	3.6	1.000030
58500.0	78.9	-63.1		130.8	564.7	261.7	8.5	1.000029
59000.0	77.0	-62.2		127.1	565.9	254.8	14.1	1.000028
59500.0	75.1	-61.3		123.5	567.1	252.2	19.2	1.000028
60000.0	73.3	-60.4		120.0	568.3	250.9	24.0	1.000027
60500.0	71.5	-59.5		116.6	569.4	250.4	27.8	1.000026
61000.0	69.8	-58.7		113.4	570.5	251.7	27.4	1.000025
61500.0	68.2	-58.2		110.5	571.1	253.0	27.0	1.000025
62000.0	66.6	-57.8		107.7	571.7	255.7	26.0	1.000024
62500.0	65.0	-57.4		104.9	572.3	259.0	25.0	1.000023
63000.0	63.4	-57.0		102.2	572.8	262.0	24.4	1.000023
63500.0	62.0	-56.5		99.6	573.4	263.4	24.6	1.000022

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GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
64000.0	60.5	-56.1		97.1	573.9	265.5	24.8	1.000022
64500.0	59.1	-55.7		94.6	574.5	264.6	23.7	1.000021
65000.0	57.7	-55.4		92.3	574.9	263.2	22.3	1.000021
65500.0	56.3	-56.5		90.5	573.4	261.6	20.6	1.000020
66000.0	55.0	-57.6		88.8	572.0	259.9	18.2	1.000020
66500.0	53.7	-58.6		87.2	570.6	257.7	15.8	1.000019
67000.0	52.4	-58.9		85.2	570.3	256.0	13.6	1.000019
67500.0	51.1	-58.2		82.9	571.2	258.9	11.4	1.000018
68000.0	49.9	-57.5		80.7	572.1	261.6	9.4	1.000018
68500.0	48.7	-57.8		78.8	571.8	260.1	7.6	1.000018
69000.0	47.6	-58.0		77.1	571.4	278.2	5.9	1.000017
69500.0	46.5	-58.2		75.3	571.1	293.8	6.2	1.000017
70000.0	45.4	-56.9		73.1	572.9	307.1	6.9	1.000016
70500.0	44.3	-55.1		70.8	575.3	314.0	7.9	1.000016
71000.0	43.3	-53.6		68.6	577.3	317.2	9.2	1.000015
71500.0	42.2	-54.0		67.2	576.7	319.3	10.4	1.000015
72000.0	41.3	-54.4		65.7	576.2	319.8	11.1	1.000015
72500.0	40.3	-54.9		64.3	575.6	319.6	11.6	1.000014
73000.0	39.4	-55.3		62.9	575.0	319.7	12.0	1.000014
73500.0	38.4	-55.7		61.6	574.5	320.1	12.2	1.000014
74000.0	37.5	-56.1		60.2	573.9	320.7	12.3	1.000013
74500.0	36.6	-56.6		59.0	573.3	321.2	12.5	1.000013
75000.0	35.8	-56.8		57.6	573.0	320.7	12.2	1.000013
75500.0	35.0	-56.3		56.2	573.7	319.7	11.7	1.000013
76000.0	34.1	-55.9		54.7	574.3	319.6	11.2	1.000012
76500.0	33.3	-55.4		53.3	574.9	318.0	10.4	1.000012
77000.0	32.6	-54.9		52.0	575.5	317.7	9.5	1.000012
77500.0	31.8	-54.4		50.6	576.1	317.4	8.5	1.000011
78000.0	31.1	-54.0		49.4	576.7	321.5	7.9	1.000011
78500.0	30.3	-53.5		48.1	577.4	330.0	7.7	1.000011

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GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND		WIND DIRECTION DEGREES (T)	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	DEWPOINT CENTIGRADE			KNOTS	KNOTS		SPEED KNOTS	REFRACTION	
79000.0	29.6	-53.1			46.9	577.9		338.8	7.6	1.000010	
79500.0	28.9	-52.8			45.8	576.3		348.2	8.1	1.000010	
80000.0	28.3	-52.5			44.6	575.7		357.5	9.9	1.000010	
80500.0	27.6	-52.1			43.6	575.2		3.7	11.9	1.000010	
81000.0	27.0	-51.8			42.5	574.6		8.2	13.9	1.000009	
81500.0	26.4	-51.5			41.5	580.0		12.4	16.3	1.000009	
82000.0	25.8	-51.1			40.5	580.5		15.7	18.7	1.000009	
82500.0	25.2	-50.8			39.5	580.9		18.2	21.2	1.000009	
83000.0	24.6	-50.5			38.5	581.3		22.3	23.7	1.000009	
83500.0	24.0	-50.1			37.5	581.8		27.3	26.3	1.000008	
84000.0	23.5	-49.8			36.7	582.2		31.3	29.1	1.000008	
84500.0	23.0	-49.5			35.6	582.6		34.9	31.4	1.000008	
85000.0	22.4	-49.1			34.9	583.1		39.9	31.7	1.000008	
85500.0	21.9	-48.8			34.0	583.5		42.9	32.2	1.000008	
86000.0	21.4	-48.5			33.2	583.9		46.7	32.9	1.000007	
86500.0	20.9	-48.1			32.4	584.4		48.7	31.4	1.000007	
87000.0	20.5	-47.8			31.6	584.8		50.4	29.3	1.000007	
87500.0	20.0	-47.5			30.8	585.2		52.4	27.3	1.000007	
88000.0	19.5	-47.2			30.1	585.6		54.0	25.7	1.000007	
88500.0	19.1	-46.9			29.4	586.0		53.8	25.1	1.000007	
89000.0	18.7	-46.6			28.7	586.4		53.5	24.4	1.000006	
89500.0	18.3	-46.3			28.0	586.8		53.3	23.7	1.000006	
90000.0	17.8	-46.0			27.4	587.2		52.8	22.8	1.000006	
90500.0	17.4	-45.6			26.7	587.6		52.3	21.7	1.000006	
91000.0	17.1	-45.3			26.1	588.0		51.6	20.6	1.000006	
91500.0	16.7	-45.0			25.5	588.4		51.1	19.7	1.000006	
92000.0	16.3	-44.7			24.9	588.8		51.4	20.0	1.000006	
92500.0	15.9	-44.4			24.3	589.2		51.7	20.4	1.000005	
93000.0	15.6	-44.1			23.7	589.6		52.0	20.7	1.000005	
93500.0	15.2	-43.8			23.1	590.0		51.9	22.0	1.000005	

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GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	SPEED KNOTS	INDEX OF REFRACTION
94000.0	14.9	-43.4		22.6	590.5	51.5	24.1	1.000005
94500.0	14.6	-42.8		22.0	591.3	51.2	26.2	1.000005
95000.0	14.2	-42.1		21.5	592.1	51.0	28.2	1.000005
95500.0	13.9	-41.5		20.9	592.9	53.5	28.4	1.000005
96000.0	13.6	-40.9		20.4	593.7	50.2	28.6	1.000005
96500.0	13.3	-40.3		19.9	594.5	58.9	28.8	1.000004
97000.0	13.0	-39.7		19.4	595.3	63.0	28.9	1.000004
97500.0	12.7	-39.6		19.0	595.3	70.4	28.8	1.000004
98000.0	12.5	-39.7		18.6	595.2	77.7	29.2	1.000004
98500.0	12.2	-39.7		18.2	595.2	84.7	30.1	1.000004
99000.0	11.9	-39.8		17.8	595.1	87.4	31.1	1.000004
99500.0	11.7	-39.8		17.4	595.1	87.8	32.0	1.000004
100000.0	11.4	-39.9		17.0	595.0	83.2	32.8	1.000004
100500.0	11.2	-39.9		16.7	594.9	83.6	33.7	1.000004
101000.0	10.9	-40.0		16.3	594.9	89.9	29.7	1.000004
101500.0	10.7	-40.0		16.0	594.8	91.6	25.6	1.000004
102000.0	10.4	-40.1		15.6	594.7	94.0	21.5	1.000003
102500.0	10.2	-40.2		15.3	594.7	97.5	17.5	1.000003
103000.0	10.0	-40.2		14.9	594.6			1.000003
103500.0	9.8	-40.2		14.6	594.6			1.000003
104000.0	9.6	-40.3		14.3	594.5			1.000003
104500.0	9.4	-40.3		14.0	594.5			1.000003
105000.0	9.1	-40.3		13.7	594.5			1.000003
105500.0	8.9	-40.3		13.4	594.4			1.000003
106000.0	8.8	-40.4		13.1	594.4			1.000003
106500.0	8.6	-40.4		12.8	594.4			1.000003

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MRN SIGNIFICANT LEVEL DATA
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 TABLE XVIII.

GEODETIC COORDINATES
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GEOPOTENTIAL ALTITUDE DECA METERS	DIRECTION LEG (TN)	WIND DATA		E-W MPS	DEW PT DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
3241.	9999.**	9999.**	-9999.**	-9999.**	99	-40.4		8.400+0
3122.	9999.**	9999.**	-9999.**	-9999.**	99	-40.2		1.000+1
2943.	64.	15.	-7.	-13.	99	-39.6		1.300+1
2846.	52.	12.	-7.	-9.	99	-43.6		1.500+1
2654.	52.	14.	-9.	-11.	99	-47.5		2.000+1
2590.	334.	4.	-4.	2.	99	-53.3		3.000+1
2275.	321.	6.	-5.	4.	99	-56.9		3.600+1
2154.	317.	5.	-3.	3.	99	-53.5		4.340+1
2114.	297.	5.	-1.	3.	99	-58.3		4.620+1
2064.	261.	5.	1.	5.	99	-57.5		5.000+1
2027.	258.	8.	2.	7.	99	-59.2		5.300+1
1973.	263.	12.	1.	11.	99	-55.3		5.780+1
1851.	252.	14.	4.	13.	99	-58.7		7.000+1
1773.	266.	4.	0.	4.	99	-63.3		7.940+1
1709.	260.	4.	0.	2.	99	-56.7		8.800+1
1667.	256.	5.	1.	3.	99	-52.8		9.400+1
1627.	255.	12.	3.	11.	99	-50.7		1.000+2

** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

GEODETIC COORDINATES
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TABLE XIX.

STATION ALTITUDE 4051.00 FEET MSL
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PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM. PERCENT	WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE		DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4796.	8.4	1.8	63.	197.5	12.4
800.0	6429.	4.1	.5	77.	220.3	23.4
750.0	8138.	.4	-3.5	75.	247.2	33.4
700.0	9948.	-2.2	-12.6	44.	252.2	38.2
650.0	11867.	-6.2	-14.1	53.	263.1	38.1
600.0	13905.	-10.6	-17.3	57.	272.7	31.4
550.0	16085.	-14.4	-27.1	33.	269.4	37.1
500.0	18429.	-20.5	-34.9	28.	266.8	41.7
450.0	20953.	-27.1	-38.0	34.	260.9	45.4
400.0	23721.	-29.0			240.9	77.5
350.0	26808.	-36.2			234.8	81.8
300.0	30265.	-42.9			230.0	82.4
250.0	34225.	-51.6			232.9	80.8
200.0	38974.	-50.3			234.7	58.9
175.0	41820.	-54.2			234.6	48.9
150.0	45046.	-58.2			234.5	39.6
125.0	48771.	-61.2			241.4	65.2
100.0	53382.	-50.7			254.7	23.7
80.0	58021.	-63.0			273.8	5.2
70.0	60742.	-58.7			251.5	27.4
60.0	63939.	-56.0			265.5	24.7
50.0	67721.	-57.5			261.1	9.6
40.0	72376.	-55.0			319.8	11.7
30.0	78398.	-53.3			333.4	7.6
25.0	82272.	-50.7			18.6	21.7
20.0	87077.	-47.5			52.2	27.5
15.0	93369.	-43.6			51.6	23.2
10.0	102434.	-40.2				

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MRN MANDATORY LEVELS
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 TABLE XX.

GEODETTIC COORDINATES
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GEOCENTRAL ALTITUDE DECAMETERS	DIRECTION DEG (TN)	WIND DATA		E-W MPS	D-W PT DEP DEG C	TEMPERATURE		PRESSURE MILLIBARS
		SPEED MPS	N-S MPS			AIR DEG C		
3122.	9999.**	9999.**	-9999.**	-9999.**	99	-40.2		1.000+1
2646.	52.	12.	-7.	-9.	99	-43.6		1.500+1
2654.	52.	14.	-9.	-11.	99	-47.5		2.000+1
2508.	19.	11.	-11.	-4.	99	-50.7		2.500+1
2390.	333.	4.	-4.	2.	99	-53.3		3.000+1
2206.	320.	6.	-5.	4.	99	-55.0		4.000+1
2064.	261.	5.	1.	5.	99	-57.5		5.000+1
1949.	266.	13.	1.	13.	99	-56.0		6.000+1
1651.	251.	14.	4.	13.	99	-58.7		7.000+1
1768.	274.	3.	-0.	3.	99	-63.0		8.000+1
1627.	255.	12.	3.	12.	99	-50.7		1.000+2
1487.	241.	34.	16.	29.	99	-61.2		1.250+2
1373.	234.	20.	12.	17.	99	-58.2		1.500+2
1275.	235.	24.	14.	20.	99	-54.2		1.750+2
1188.	235.	29.	17.	24.	99	-50.3		2.000+2
1043.	233.	42.	25.	33.	99	-51.6		2.500+2
922.	230.	42.	27.	32.	99	-42.9		3.000+2
617.	235.	42.	24.	34.	99	-36.2		3.500+2
723.	241.	40.	19.	35.	99	-29.0		4.000+2
639.	261.	23.	4.	23.	11	-27.1		4.500+2
562.	267.	21.	1.	21.	14	-20.5		5.000+2
490.	269.	19.	0.	19.	13	-14.4		5.500+2
424.	273.	16.	-1.	16.	07	-10.6		6.000+2
362.	263.	20.	2.	19.	08	-6.2		6.500+2
303.	252.	20.	5.	19.	11	-2.2		7.000+2
248.	247.	12.	7.	17.	04	.4		7.500+2
196.	220.	12.	9.	8.	04	4.1		8.000+2
146.	197.	0.	6.	2.	07	8.4		8.500+2

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** WIND DATA NOT COMPUTED DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.